

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification 5 :</b> <b>F41H 5/04</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 93/00564</b> <b>(43) International Publication Date:</b> 7 January 1993 (07.01.93)
<b>(21) International Application Number:</b> PCT/US92/05018 <b>(22) International Filing Date:</b> 18 June 1992 (18.06.92) <b>(30) Priority data:</b> 721,818 26 June 1991 (26.06.91) US <b>(71) Applicant:</b> E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). <b>(72) Inventors:</b> CHIOU, Minshon, J. ; 6618 Irongate Drive, Richmond, VA 23234 (US). YANG, Hung, Han ; 322 Harwick Drive, Richmond, VA 23236 (US). <b>(74) Agents:</b> SHAFER, Robert, J. et al.; E.I. du Pont de Nemours and Company, Legal/Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		<b>(81) Designated States:</b> AU, CA, JP, KR, RU, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE).  <b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> p-ARAMID BALLISTIC YARN AND STRUCTURE		
<b>(57) Abstract</b>  A laminated ballistic structure is disclosed using fabrics made from p-aramid yarn with high tenacity and elongation to break and a consequent improved ballistic performance. The ballistic structure is laminated and comprises a plurality of fabric layers made from said p-aramid yarn exhibiting an elongation to break of greater than 4.0 % a modulus of less than 600 g/d, and a tenacity of greater than 23 g/d.		